



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

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8	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	50.16	8	8
10	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	63.63	10	10
11	PCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3.04	2	2
12	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	6 set /100-150 cum	116.33	12	12
13	GSB	SIEVE ANALYSIS	One Test		1	1
14	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
15	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Verified

gpd
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-09-04-09 Date: 18-06-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-06-20
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 16-06-20
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.22	—
2	Finess by Air permeability method (m ² /kg,Min)	289.5	225m ² /kg, Min
3	Density (gm/cc)	3.11	—
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Verified
gpo
Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL PRO
FOR CIVIL Pro.
Sig: *R. Rudraprasad*
Date: *18-06-20*
R/RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2020-09-04-09 Date: 14-07-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08. 6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 16-06-20

Environmental Conditions during test : Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Palanesh

Verified
CPD
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

****End of Report****



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R Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-09-04-09 Date: 18-06-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 15-06-20
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 15-06-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	7152	7394	49.3	50.7	30-70
4	10 mm	3885	11279	75.2	24.8	10-35
5	4.75 mm	3205	14484	96.6	3.4	0-5
6	Pan	516	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2020-09-04-09

Date: 18-06-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.43	—
5	Bulk Density(Compacted) (Kg/l)	1.48	—
6	Water Absorption(%)	0.18	—

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

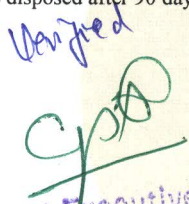
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R RUDRAPRASAD
Authorized Signatory
Technical Manager



Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-09-04-09 Date: 17-06-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-06-20
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 15-06-20

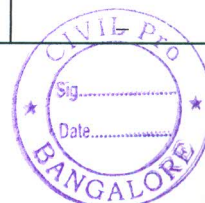
SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	272	272	5.4	94.6	90-100
3	10 mm	2758	3030	60.6	39.4	25-55
4	4.75 mm	1759	4789	95.8	4.2	0-10
5	Pan	211	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2020-09-04-09

Date: 17-06-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.6	
3	Specific Gravity	2.63	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	22.2	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.

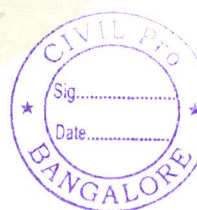
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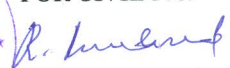
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 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Malahanka Zone, B.B.M.P.,
 Bangalore.



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R RUDRAPRASAD
 Authorized Signatory
 Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-09-04-09 **Date:** 17-06-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 15-06-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-09-04-09

Date: 17-06-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Verified
Praveen H


Assistant Executive Engineer,
Kodigehalli Sub Division,
Mahanka Zone, B.B.M.R.,
Bangalore.



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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2020-09-04-09 Date: 29-06-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-20

Sample Type/Size : Solid concrete blocks size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 26-06-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	405	203	199	16361	32.652	1995.7	2048.5	Not less than 1800Kg/m ³
2	400	202	201	16241	33.275	2048.8		
3	398	199	200	15840	33.278	2100.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID

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CP-2020-09-04-09

Date: 29-06-20

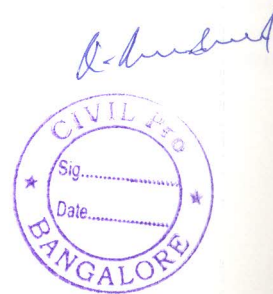
DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	203	199	
3	400	200	202	
4	400	202	203	
5	399	203	203	
6	400	202	199	
7	400	201	201	
8	403	199	203	
9	403	200	202	
10	399	203	200	
11	401	199	203	
12	401	201	200	
13	401	199	203	
14	402	201	202	
15	402	200	202	
16	401	202	201	
17	399	202	203	
18	402	203	203	
19	402	202	203	
20	401	202	202	
Average of 20	401	201	202	

Page 2/3

Praveen

Verified
Cp
Assistant Executive Engineer,
Kodigehalli Sub Division,
Mahanka Zone, B.B.M.P.,
Bangalore.



Lab ID : CP-2020-09-04-09

Date: 29-06-20

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	400	200	80072	423.1	5.3	5.3
2	402	203	81499	424.2	5.2	
3	400	200	80059	430.7	5.4	
4	400	202	80725	425.5	5.3	
5	399	203	80878	430.9	5.3	
6	400	202	80707	429.2	5.3	
7	400	201	80384	430.3	5.4	
8	403	199	80207	424.6	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



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R. RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2020-09-04-09 **Date:** 22-06-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-06-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 20-06-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Assistant Executive Engineer,
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Mahanka Zone, B.B.M.P.,
Bangalore.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-09-04-09 **Date:** 04-07-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 30/06/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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CP
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.
 Bangalore.

Page 1/1
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Rudraprasad
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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID : CP-2020-09-04-09 Date: 18-07-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-20

Identification Mark on Brick : Wire Cut Brick

Reference to BIS codes : IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (CI 4.2.3)
Part 2:Determination of Water Absorption,(CI 4.1.3)
Part 3: Determination of Efflorescence, (CI 4)

Date of test : 13-07-20

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm ²)	Failure Load (KN)	Compressive strength of individual bricks (N/mm ²)	Acceptability as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

Page 1/2

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Lab ID

: CP-2020-09-04-09

Date: 18-07-20

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm ²)	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than "moderate" upto class 12.5 and "slight" for higher classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

Note:

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Bangalore.

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 20/07/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-06-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	20/07/2020	151.42 X	22944	8.931	399.8	17.4	17.4
					151.52 X					
					151.18					
2	PCC	M15	22/06/2020	20/07/2020	150.77 X	22767	8.821	392.1	17.2	
					151.01 X					
					151.53					
3	PCC	M15	22/06/2020	20/07/2020	149.55 X	22516	8.988	395.7	17.6	
					150.56 X					
					151.87					

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 Technical Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 29/06/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	29/06/2020	149.95 X	22571	8.424	276.4	12.2	12.5
					150.53 X					
					150.38					
2	PCC	M15	22/06/2020	29/06/2020	149.76 X	22735	8.716	285.6	12.6	
					151.80 X					
					151.80					
3	PCC	M15	22/06/2020	29/06/2020	151.41 X	22806	8.069	286.8	12.6	
					150.63 X					
					151.21					

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 20/07/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

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Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 20/07/2020

Date of test : 20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	20/07/2020	150.41 X	22748	8.931	399.2	17.5	17.5
					151.24 X					
					150.19					
2	PCC	M15	22/06/2020	20/07/2020	150.27 X	22488	8.821	383.5	17.1	
					149.65 X					
					151.36					
3	PCC	M15	22/06/2020	20/07/2020	150.86 X	22907	8.988	407.9	17.8	
					151.84 X					
					151.09					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 29/06/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	29/06/2020	149.82 X	22536	8.424	291.0	12.9	12.7
					150.42 X					
					150.41					
2	PCC	M15	22/06/2020	29/06/2020	150.94 X	22491	8.716	277.7	12.3	
					149.01 X					
					151.37					
3	PCC	M15	22/06/2020	29/06/2020	151.27 X	22914	8.069	297.1	13.0	
					151.48 X					
					149.90					

Note:

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[Signature]

[Signature]
 Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.,
 Bangalore.

Page 1/1

****End of Report****



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[Signature]
 R. RUDRAPRASAD
 Authorized Signatory
 Technical Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 Date: 20/07/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-06-20
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	20/07/2020	151.95 X 150.01 X 150.03	22794	8.931	403.8	17.7	17.4
2	PCC	M15	22/06/2020	20/07/2020	151.56 X 150.09 X 149.60	22747	8.821	394.7	17.3	
3	PCC	M15	22/06/2020	20/07/2020	150.38 X 151.95 X 149.11	22851	8.988	391.9	17.1	

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Verified
CPD
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yalahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 Date: 29/06/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	29/06/2020	149.63 X	22701	8.424	281.3	12.4	12.4
					151.71 X					
					151.57					
2	PCC	M15	22/06/2020	29/06/2020	149.46 X	22657	8.716	285.5	12.6	
					151.59 X					
					151.18					
3	PCC	M15	22/06/2020	29/06/2020	149.70 X	22326	8.069	273.7	12.3	
					149.14 X					
					151.35					

Note:

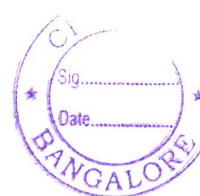
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Praveen K

CP/TF/01
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

****End of Report****



FOR CIVIL Pro.

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R RUDRAPRASAD
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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 Date: 20/07/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2020

Date of test : 20/07/2020										
Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	22/06/2020	20/07/2020	150.44 X	22795	8.931	407.0	17.9	17.5
					151.52 X					
					150.44					
2	PCC	M15	22/06/2020	20/07/2020	150.61 X	22844	8.821	403.5	17.7	
					151.67 X					
					149.73					
3	PCC	M15	22/06/2020	20/07/2020	150.23 X	22659	8.988	385.6	17.0	
					150.84 X					
					150.91					

Note:

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[Signature]
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

****End of Report****



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R RUDRAPRASAD
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 Date: 01/07/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-06-20
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M20	24/06/2020	01/07/2020	149.30 X	22614	8.598	410.3	18.1	18.4
					151.47 X					
					149.26					
2	RCC	M20	24/06/2020	01/07/2020	151.72 X	22769	8.715	419.2	18.4	
					150.07 X					
					150.17					
3	RCC	M20	24/06/2020	01/07/2020	150.01 X	22385	8.762	416.2	18.6	
					149.22 X					
					150.44					

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Umesh
Dev
g



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RUDRAPRASAD
Authorized Signatory
Technical Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 22/07/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-06-20
Customer ID : RCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 22/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	RCC	M20	24/06/2020	22/07/2020	151.04 X 150.88 X 149.65	22789	8.411	528.3	23.2	23.1
2	RCC	M20	24/06/2020	22/07/2020	150.07 X 149.89 X 151.82	22493	8.960	516.5	23.0	
3	RCC	M20	24/06/2020	22/07/2020	149.99 X 151.80 X 150.88	22768	8.878	524.2	23.0	

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Verified

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Assistant Executive Engineer,
Kodigehalli Sub-Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Page 1/1

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R. RUDRAPRASAD
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 Date: 16/07/2020

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	09/07/2020	16/07/2020	151.52 X 151.27 X 151.61	22920	8.866	589.9	25.7	25.7
2	Cement Concrete Pavement	M30	09/07/2020	16/07/2020	150.46 X 151.15 X 150.84	22742	8.366	607.7	26.7	
3	Cement Concrete Pavement	M30	09/07/2020	16/07/2020	150.41 X 150.28 X 150.01	22605	8.029	559.4	24.7	

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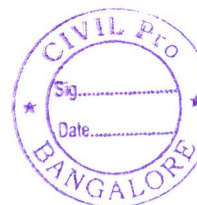
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1

****End of Report****



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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-09-04-09 **Date:** 06/08/2020
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer's Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 11-07-20
Customer ID : Cement Concrete Pavement
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 06/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Cement Concrete Pavement	M30	09/07/2020	06/08/2020	151.55 X	22709	8.588	764.9	33.7	33.1
					149.85 X					
					149.79					
2	Cement Concrete Pavement	M30	09/07/2020	06/08/2020	150.48 X	22777	8.738	732.5	32.2	
					151.37 X					
					150.85					
3	Cement Concrete Pavement	M30	09/07/2020	06/08/2020	149.80 X	22575	8.436	755.4	33.5	
					150.70 X					
					151.89					

Note:

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Assistant Executive Engineer,
 Kodigehalli Sub Division,
 Yelahanka Zone, B.B.M.P.
 Bangalore.

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RUDRAPRASAD
 Authorized Signatory
 Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2020-09-04-09 Date: 09-07-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-20

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 06-07-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

Page 1/2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID

:

CP-2020-09-04-09

Date: 09-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	—
2	Specific Gravity	2.51	—
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	—
5	*Loose Bulk Density (Kg/litre)	1.73	—

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Verified

CPA

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



FOR CIVIL Pro.

R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID : CP-2020-09-04-09 Date: 10-07-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.

Customer's Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-20

Sample Type : Plaster Sand

Reference to BIS codes : IS: 383 : 2016 (Specification for Coarse and fine Aggregates)
IS1542:1992 (Sand for Plaster - Specification)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 06-07-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
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TEST REPORT OF FINE AGGREGATE

Lab ID

:

CP-2020-09-04-09

Date: 10-07-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	—
2	Specific Gravity	2.56	—
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Verified
gpa
Assistant Executive Engineer,
Kodigehalli Sub Division,
Vpiahanka Zone, B.B.M.P.,
Bangalore.



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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011))

Lab ID : CP-RW-2020-09-04-09 Date: 14-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-08-20
Type of Mix : GSB (Granular Sub Base)
Date of test : 12-08-20
Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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All information Furnished by Customer/ Representative

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Signature

Signature

Assistant Executive Engineer
Kodigehalli Sub Division,
Bhadrappa Layout, BBMP, Bangalore.



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Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2020-09-04-09 **Date:** 20-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-08-20
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 18-08-20
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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Verified

CP

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Page 1/1
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Authorized Signatory
Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2020-09-04-09 Date: 20-08-20

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08.6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.

Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P),

Customer Reference : BBMP/EE/BTP/WO/185/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-08-20

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 18-08-20

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

Note:-

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Technical Manager



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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2020-09-04-09 Date: 20-08-20
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Package-3, Includes 7 Works .1) improvements to Parks in Kodigehalli Ward No 08. 2) Providing Borewell and Pipeline Work in Bhadrappa Layout and Surrounding in Ward No 08 Kodigehalli. 3) Supply of Water Through Water Tank at Balaji Layout and Bhadrappa Layout at Kodigehalli in Ward No 08. 4) Supply of Water Through Water Tank at Kodigehalli Maruthinagar and BB Nagar Area at Kodigehalli in Ward No 08 5) Replace of Old UGD Pipeline at Kodigehalli in Ward No 08. 6) Improvements of Roads and Desilting at Devinagara and Surrounding Area at Kodigehalli in Ward No 08. 7) Providing and Fixing CCTV at Block Spots in Kodigehalli Ward No 08.
Agency : Sri B.B. Umesh, No 385/1, Near Anjeyana temple Bettahalsur Village & (P), Bangalore-562157.
Customer Reference : BBMP/EE/BTP/WO/185/2019-20
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-08-20
Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test : 18-08-20
Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-

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